Multimedia			
Unit	Objectives		
Foundational Concepts	1 Develop vocabulary related to multimedia		
	2 Investigate the key principles in internet safety, security, and privacy		
	3 Utilize hardware to manipulate various types of media (e.g., cameras, microphones, graphic tablets)		
	4 Determine appropriate software application for task		
	5 Use organizational skills to plan multimedia products (e.g., storyboarding, outlining, scripting, task delegation)		
	6 Apply design principles used in multimedia productions		
	7 Create text using typography principles		
	8 Evaluate and determine hardware and software required for multimedia use		
	1 Identify a variety of presentation software (e.g., Prezi, Empressr, PowerPoint, Open Office Impress, Apple Keynote, NXPowerlite)		
	2 Identify components of effective electronic presentations		
	3 Design linear and non-linear presentations (e.g., interactive game)		
Electronic Presentations	4 Import files into a presentation (e.g., text, images, audio, video)		
	5 Apply advanced editing techniques (e.g., build, effects, timing, animation, transitions)		
	6 Export presentation to various formats (e.g., .ppt, .jpg, .html)		
	7 Deliver a presentation using professional standards and techniques		
Emerging Technologies	1 Utilize and create collaborative electronic tools (e.g., wikis, blogs, forums)		
Emerging recimologies	2 Utilize web-based technologies to publish media (e.g., screencasts, podcasts, vodcasts, iTunes)		
	1 Create frame-by-frame animations		
	2 Create reusable symbols (e.g., button, movie, graphic)		
	3 Apply motion and shape tweens		
Animation	4 Modify bitmaps (trace bitmap, convert to symbol)		
	5 Use layers and object modification techniques (e.g., transform, alpha transparency, filters)		
	6 Add interactivity to animations with buttons, menus, and scripting		
	7 Explore advanced animation techniques (e.g., 3D)		
	1 Compare and contrast audio formats common size and quality (e.g., .mp3, .wav, .midi)		
	2 Rip and import audio from a variety of sources (e.g., CD/DVD, video, Internet)		
	3 Create original audio (e.g., voice, instrument)		
Audio Files	4 Mix audio (e.g., layering, trimming, level adjustments)		
	5 Apply effects to audio (e.g., noise reduction, amplify, echo)		
	6 Export audio files based on delivery method		
	7 Apply editing techniques		
	1 Develop pre-production documents (e.g., storyboard, shot list)		
	2 Apply basic filming techniques (e.g., camera angles, camera movement, lighting, sound)		
	3 Access, capture, and import a variety of file sources converting file types, if necessary (e.g. audio, video, graphics)		
	4 Arrange video clips, audio clips, titles and still images on timeline		
	5 Manipulate clips (e.g., link/unlink, adjust transparency, set properties, trim, adjust speed/duration)		
Video Files	6 Apply special effects, transitions, key frame/motion settings, animations, filters, and text		
	7 Synchronize audio with video		
	8 Apply advanced editing techniques (e.g., split screen format, chromakey, audiopan)		
	9 Evaluate sources for playing completed video (e.g., hardware, software, web applications)		
	10 Apply codec (compression) appropriate for the media delivery		
	11 Export video for a variety of media outlets (e.g., broadcast, web)		
	12 Author DVD		

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Foundations of Communication	1	Demonstrate ability to listen/read and follow directions	
	2	Demonstrate proofreading and spell check of written media	
	3	Demonstrate appropriate use of grammar while delivering presentations	
	4	Demonstrate ability to format written communications to include numbers, and punctuation	
	5	Demonstrate ability to function as a team member	
	6	Demonstrate ability to research and analyze information from various sources (i.e. written, digital) for use in written or oral presentation	
	1	Compare copyright and patent laws for multimedia between educational and workplace settings (e.g., video, text, sound, pictures)	
	2	Demonstrate ethical behavior when designing multimedia applications	
	3	Identify career/self-employment opportunities in multimedia production	
Workplace Readiness Skills	4	Exhibit leadership skills through a student organization (e.g., FBLA, PBL)	
	5	Interact with industry professionals (e.g., guest speakers, field trips, job shadowing)	
	6	Use help tools (e.g., technical manual, on-line help, technical support)	
	7	Demonstrate mastery through work samples	
	1	Acquire and import images from a variety of sources (e.g., scanners, cameras, phones)	
	2	Apply appropriate resolution settings for intended use of image	
	3	Apply appropriate image mode for intended application (e.g., convert RGB, CMYK, grayscale)	
Managing Images	4	Compose images using layers and selections	
	5	Edit images (e.g., color, filter, tint, contrast, brightness)	
	6	Manipulate images (e.g., mask, resize, crop, scale, group/ungroup, zoom, pan)	
	7	Create original artwork using illustrative software	
Media Files	1	Identify types of files used in multimedia applications (e.g., .gif, .jpg, .ai, .psd, .png, .avi, .wmv)	
	2	Develop electronic file management systems (project folders, file naming, etc.)	
	3	Download files from various sources (e.g., audio, images, video, animation)	
	4	Convert files to various formats (e.g., .flv to .avi, .mov to .wmv, .psd to .jpg)	
	5	Utilize storage devices (e.g., CD/DVD, portable storage devices)	
	6	Manage electronic file storage/transfer (online, Bluetooth, etc.)	